

(54) Title of the invention : SMART AI TECHNOLOGY IN THE DETECTION OF COMPLEX PEDIATRIC INGUINAL HERNIA SURGERY

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(57) Abstract :
ABSTRACT Medical personnel typically identify inguinal hernias, which are common in paediatric surgery, by utilising clinical data from B-ultrasound, computed tomography (CT), or magnetic resonance imaging (MRI). Intestinal necrosis is frequently diagnosed by utilising parameters from a complete blood count, such as white blood cell and platelet counts. Utilising medical numerical data from normal blood examinations and liver and kidney function markers, this article implemented a machine learning approach to facilitate the identification of intestinal necrosis in children with inguinal hernias prior to surgery. The medical field is presently being rapidly transformed by artificial intelligence (AI), which is being employed in conjunction with medical diagnostics and image analysis. This document examines the applications of AI in surgery, with a particular emphasis on its importance in paediatric surgery. It examines the development, current status, and potential future advancements of AI.

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